

5                    EVOLUTION DIAGRAMS FOR DEBUGGING DISTRIBUTED  
                         EMBEDDED SOFTWARE APPLICATIONS

Abstract of the Disclosure

- 10            Software development methods and tools are described to generate visual  
              representations of a system's behavior over time, called "evolution diagrams," to aid  
              in debugging concurrent software systems. The diagrams take advantage of the  
              exposure provided by coordination interfaces to present more complete views of  
              system executions, explicitly showing events, message traffic between components,  
15        etc. The display is presented at a user-selectable hierarchical level of the system  
              design, thus enabling a programmer to work at a design layer where the problem or  
              its effect is easily recognized.

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